

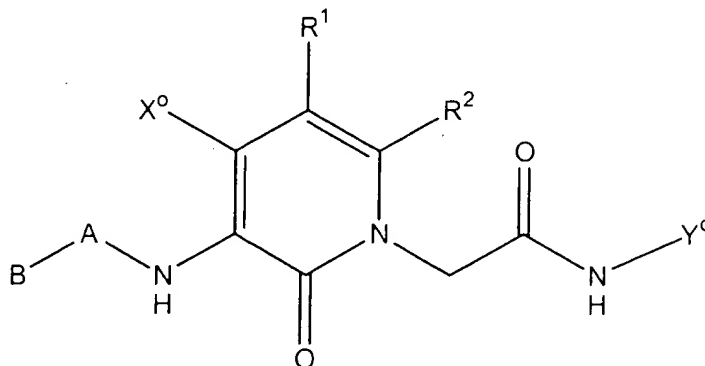
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-16 (canceled)

Claim 17 (currently amended): A compound having the Formula:



or a pharmaceutically acceptable salt thereof, wherein;

B is selected from the group consisting of hydrido, C2-C8 alkyl, C3-C8 alkenyl, C3-C8 alkynyl, and C2-C8 haloalkyl, wherein each member of group B is optionally substituted at any carbon up to and including 6 atoms from the point of attachment of B to A with one or more of the group consisting of R³², R³³, R³⁴, R³⁵, and R³⁶;

R³², R³³, R³⁴, R³⁵, and R³⁶ are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkoxy, hydroxy, amino, alkoxyamino, lower alkylamino, alkylthio, amidosulfonyl, monoalkyl amidosulfonyl, dialkyl amidosulfonyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, carboalkoxy, carboxy, carboxamido, cyano, and Q^b;

A is selected from the group consisting of single covalent bond and (CH(R¹⁵))_{pa}-(W⁷)_{rr} wherein rr is an integer selected from 0 through 1, pa is an integer selected from 0 through 3, and W⁷ is selected from the group consisting of (R⁷)NC(O)

and $N(R^7)$ with the proviso that no more than one of the group consisting of rr and pa is 0 at the same time;

R^7 is selected from the group consisting of hydrido, hydroxy and alkyl;

R^{15} is selected from the group consisting of hydrido, halo, alkyl, and haloalkyl;

R^1 and X^0 are independently selected from the group consisting of hydrido, hydroxy, hydroxyamino, amidino, amino, cyano, hydroxyalkyl, alkoxy, alkyl, alkylamino, aminoalkyl, alkylthio, alkoxyamino, haloalkyl, haloalkoxy, and halo;

R^2 is Z^0-Q ;

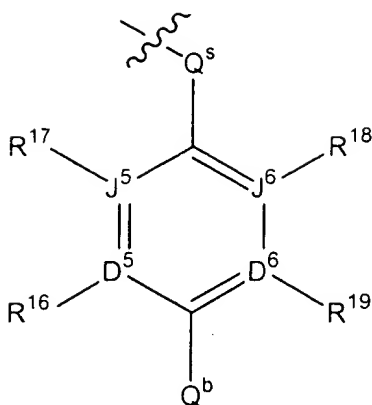
Z^0 is a covalent single bond;

Q is aryl, wherein (a) a ring carbon in a first alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^9 , (b) a ring carbon in a second alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^{13} , (c) a ring carbon, in a first beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^9 , is optionally substituted by R^{10} , (d) a ring carbon, in a second beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^{13} , is optionally substituted by R^{12} , and (e) a ring carbon, ~~if present~~, in the gamma position relative to the ring carbon at the point of attachment and in an alpha position relative to each of the ring atoms optionally substituted by R^{10} and R^{12} , respectively, is optionally substituted by R^{11} ;

R^9 , R^{11} , and R^{13} are independently selected from the group consisting of hydrido, hydroxy, amino, amidino, guanidino, lower alkylamino, alkylthio, alkylsulfonamido, alkylsulfinyl, alkylsulfonyl, amidosulfonyl, monoalkyl amidosulfonyl, alkyl, alkoxy, halo, haloalkyl, haloalkoxy, hydroxyalkyl, carboxy, carboxamido, and cyano;

R^{10} and R^{12} are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkyl, alkoxy, hydroxy, amino, alkoxyamino, lower alkylamino, alkylsulfonamido, amidosulfonyl, monoalkyl amidosulfonyl, dialkyl amidosulfonyl, hydroxyalkyl, aminoalkyl, carboalkoxy, carboxy, carboxyalkyl, amidocarbonyl, halo, haloalkyl, and cyano;

Y^0 is an aryl or heteroaryl of 5 or 6 ring members of the formula (IV):



(IV)

wherein D⁵, D⁶, J⁵, and J⁶ are independently selected from the group consisting of C and N provided, however, no more than one of D⁵, D⁶, J⁵, and J⁶ is nitrogen;

R¹⁶, R¹⁷, R¹⁸, and R¹⁹ are independently selected from the group consisting of hydrido, amidino, guanidino, carboxy, haloalkylthio, alkoxy, hydroxy, amino, lower alkylamino, alkylthio, alkylsulfinyl, alkylsulfonyl, alkanoyl, haloalkanoyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, aminoalkyl, and cyano;

Q^b is selected from the group consisting of NR²⁰R²¹, hydrido, C(NR²⁵)NR²³R²⁴, and N(R²⁶)C(NR²⁵)N(R²³)(R²⁴), with the provisos that no more than one of R²⁰ and R²¹ is hydroxy and that no more than one of R²³ and R²⁴ is hydroxy;

R²⁰, R²¹, R²³, R²⁴, R²⁵, and R²⁶ are independently selected from the group consisting of hydrido, alkyl, and hydroxy; and

Q^s is a single covalent bond or CH₂.

Claim 18 (previously presented): The compound as recited in claim 17 or a pharmaceutically acceptable salt thereof, wherein;

B is selected from the group consisting of hydrido, ethyl, 2-propynyl, 2-propenyl, propyl, isopropyl, butyl, 2-butenyl, 3-butenyl, 2-butylnyl, sec-butyl, tert-butyl, isobutyl, 2-methylpropenyl, 1-pentyl, 2-pentenyl, 3-pentenyl, 4-pentenyl, 2-pentynyl, 3-pentynyl, 2-pentyl, 1-methyl-2-butenyl, 1-methyl-3-butenyl, 1-methyl-2-butylnyl, 3-pentyl, 1-ethyl-2-propenyl, 2-methylbutyl, 2-methyl-2-butenyl, 2-methyl-3-butenyl, 2-methyl-3-butylnyl, 3-methylbutyl, 3-methyl-2-butenyl, 3-methyl-3-butenyl, 1-hexyl, 2-hexenyl, 3-hexenyl,

4-hexenyl, 5-hexenyl, 2-hexynyl, 3-hexynyl, 4-hexynyl, 2-hexyl, 1-methyl-2-pentenyl, 1-methyl-3-pentenyl, 1-methyl-4-pentenyl, 1-methyl-2-pentynyl, 1-methyl-3-pentynyl, 3-hexyl, 1-ethyl-2-butenyl, 1-ethyl-3-butenyl, 1-propyl-2-propenyl, 1-ethyl-2-butyryl, 1-heptyl, 2-heptenyl, 3-heptenyl, 4-heptenyl, 5-heptenyl, 6-heptenyl, 2-heptynyl, 3-heptynyl, 4-heptynyl, 5-heptynyl, 2-heptyl, 1-methyl-2-hexenyl, 1-methyl-3-hexenyl, 1-methyl-4-hexenyl, 1-methyl-5-hexenyl, 1-methyl-2-hexynyl, 1-methyl-3-hexynyl, 1-methyl-4-hexynyl, 3-heptyl, 1-ethyl-2-pentenyl, 1-ethyl-3-pentenyl, 1-ethyl-4-pentenyl, 1-butyl-2-propenyl, 1-ethyl-2-pentynyl, 1-ethyl-3-pentynyl, 2,2,2-trifluoroethyl, 2,2-difluoropropyl, 4-trifluoromethyl-5,5,5-trifluoropentyl, 4-trifluoromethylpentyl, 5,5,6,6,6-pentafluorohexyl, and 3,3,3-trifluoropropyl, wherein each member of group B is optionally substituted at any carbon up to and including 5 atoms from the point of attachment of B to A with one or more of the group consisting of R^{32} , R^{33} , R^{34} , R^{35} , and R^{36} ;

R^{32} , R^{33} , R^{34} , R^{35} , and R^{36} are independently selected from the group consisting of hydrido, amidino, guanidino, carboxy, methoxy, ethoxy, isopropoxy, propoxy, hydroxy, amino, methoxyamino, ethoxyamino, acetamido, trifluoroacetamido, N-methylamino, dimethylamino, N-ethylamino, methylthio, ethylthio, isopropylthio, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, 2,2,3,3,3-pentafluoropropyl, trifluoromethoxy, 1,1,2,2-tetrafluoroethoxy, fluoro, chloro, bromo, amidosulfonyl, N-methylamidulosulfonyl, N,N-dimethylamidulosulfonyl, hydroxymethyl, 1-hydroxyethyl, 2-hydroxyethyl, 2,2,2-trifluoro-1-hydroxyethyl, methoxycarbonyl, ethoxycarbonyl, cyano, and Q^b ;

A is selected from the group consisting of single covalent bond, NH, $N(CH_3)$, $N(OH)$, CH_2 , CH_3CH , CF_3CH , $NHC(O)$, $N(CH_3)C(O)$, $C(O)NH$, $C(O)N(CH_3)$, CH_2CH_2 , $CH_2CH_2CH_2$, CH_3CHCH_2 , and CF_3CHCH_2 ;

R^1 and X^0 are independently selected from the group consisting of hydrido, hydroxy, amino, amidino, hydroxyamino, aminomethyl, 1-aminoethyl, methylamino, dimethylamino, cyano, methyl, ethyl, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, methoxy, hydroxymethyl, 1-hydroxyethyl, 2-hydroxyethyl, methoxyamino, methylthio, ethylthio, trifluoromethoxy, 1,1,2,2-tetrafluoroethoxy, fluoro, chloro, and bromo;

R^2 is Z^0 -Q;

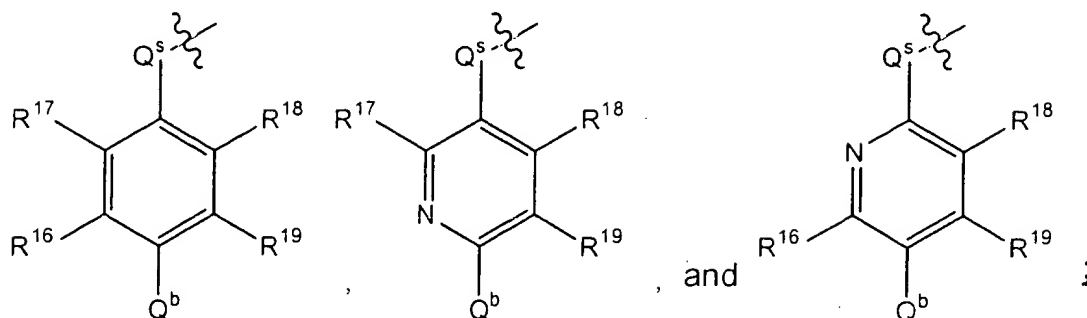
Z^0 is a covalent single bond;

Q is phenyl wherein (a) a ring carbon in a first alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^9 , (b) a ring carbon in a second alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^{13} , (c) a ring carbon, in a first beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^9 , is optionally substituted by R^{10} , (d) a ring carbon, in a second beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^{13} , is optionally substituted by R^{12} , and (e) a ring carbon, in the gamma position relative to the ring carbon at the point of attachment and in an alpha position relative to each of the ring atoms optionally substituted by R^{10} and R^{12} , respectively, is optionally substituted by R^{11} ;

R^9 , R^{11} , and R^{13} are independently selected from the group consisting of hydrido, amidino, guanidino, carboxy, methyl, ethyl, propyl, isopropyl, methoxy, ethoxy, isopropoxy, propoxy, hydroxy, amino, N-methylamino, N,N-dimethylamino, N-ethylamino, methylthio, ethylthio, isopropylthio, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, 2,2,3,3,3-pentafluoropropyl, trifluoromethoxy, 1,1,2,2-tetrafluoroethoxy, fluoro, chloro, bromo, methanesulfonamido, amidosulfonyl, N-methylamidulosulfonyl, N,N-dimethylamidulosulfonyl, hydroxymethyl, 1-hydroxyethyl, 2-hydroxyethyl, 2,2,2-trifluoro-1-hydroxyethyl, amidocarbonyl, N-methylamidocarbonyl, N,N-dimethylamidocarbonyl, and cyano;

R^{10} and R^{12} are independently selected from the group consisting of hydrido, amidino, guanidino, carboxy, carboxymethyl, methyl, ethyl, propyl, isopropyl, methoxy, ethoxy, isopropoxy, propoxy, hydroxy, amino, methoxyamino, ethoxyamino, acetamido, trifluoroacetamido, aminomethyl, 1-aminoethyl, 2-aminoethyl, N-methylamino, dimethylamino, N-ethylamino, methanesulfonamido, amidosulfonyl, N-methylamidulosulfonyl, N,N-dimethylamidulosulfonyl, hydroxymethyl, 1-hydroxyethyl, 2-hydroxyethyl, 2,2,2-trifluoro-1-hydroxyethyl, methoxycarbonyl, ethoxycarbonyl, amidocarbonyl, N-methylamidocarbonyl, N,N-dimethylamidocarbonyl, fluoro, chloro, bromo, and cyano;

Y^0 is selected from the group consisting of:



R^{16} , R^{17} , R^{18} , and R^{19} are independently selected from the group consisting of hydrido, methyl, ethyl, isopropyl, propyl, carboxy, amidino, guanidino, methoxy, ethoxy, isopropoxy, propoxy, hydroxy, amino, aminomethyl, 1-aminoethyl, 2-aminoethyl, N-methylamino, dimethylamino, N-ethylamino, methylthio, ethylthio, isopropylthio, trifluoromethylthio, methylsulfinyl, ethylsulfinyl, methylsulfonyl, ethylsulfonyl, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, 2,2,3,3,3-pentafluoropropyl, trifluoromethoxy, 1,1,2,2-tetrafluoroethoxy, fluoro, chloro, bromo, amidosulfonyl, N-methylamidosulfonyl, N,N-dimethylamidosulfonyl, hydroxymethyl, 1-hydroxyethyl, 2-hydroxyethyl, 2,2,2-trifluoro-1-hydroxyethyl, and cyano;

Q^b is selected from the group consisting of $NR^{20}R^{21}$, hydrido, $C(NR^{25})NR^{23}R^{24}$, and $N(R^{26})C(NR^{25})N(R^{23})(R^{24})$, with the provisos that no more than one of R^{20} and R^{21} is hydroxy and that no more than one of R^{23} and R^{24} is hydroxy;

R^{20} , R^{21} , R^{23} , R^{24} , R^{25} , and R^{26} are independently selected from the group consisting of hydrido, methyl, ethyl, propyl, butyl, isopropyl, and hydroxy; and

Q^s is a single covalent bond or CH_2 .

Claim 19 (currently amended): The compound as recited in claim 18 or a pharmaceutically acceptable salt thereof, wherein;

B is selected from the group consisting of hydrido, ethyl, 2-propenyl, 2-propynyl, propyl, isopropyl, butyl, 2-butyl, (R)-2-butyl, (S)-2-butyl, tert-butyl, isobutyl, 1-pentyl, 3-pentyl, 2-methylbutyl, 2,2,2-trifluoroethyl, 4-methyl-2-pentyl, 3-hydroxypropyl, 3-methoxy-2-propyl, 2-methoxyethyl, 2-methyl-2-butyl, 3-methyl-2-butyl, 2-dimethylaminopropyl, 2-cyanoethyl, 6-hydroxyhexyl, 2-hydroxyethyl, 2-amidinoethyl, 2-

guanidinoethyl, 3-guanidinopropyl, 4-guanidinobutyl, 3-hydroxypropyl, 4-hydroxybutyl, 6-cyanoethyl, 2-dimethylaminoethyl, 3-methylbutyl, 2-methylbutyl, (S)-2-methylbutyl, 3-aminopropyl, 2-hexyl, and 4-aminobutyl;

A is selected from the group consisting of single covalent bond, CH_2 , NHC(O) , CH_2CH_2 , $\text{CH}_2\text{CH}_2\text{CH}_2$, and CH_3CHCH_2 ;

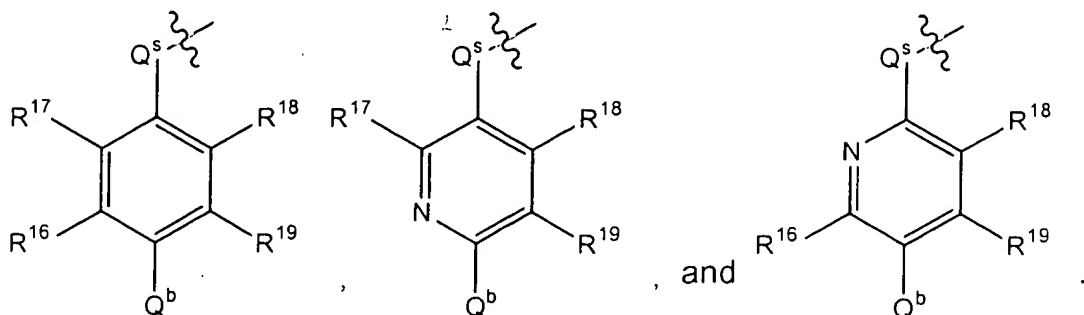
R^1 and X^0 are independently selected from the group consisting of hydrido, hydroxy, amino, amidino, hydroxyamino, aminomethyl, methylamino, cyano, methyl, trifluoromethyl, methoxy, hydroxymethyl, methoxyamino, methylthio, trifluoromethoxy, fluoro, and chloro;

R^2 is $\text{Z}^0\text{-Q}$;

Z^0 is a covalent single bond;

Q is selected from the group consisting of 5-amino-3-amidocarbonylphenyl, 5-amino-2-fluorophenyl, 3-amino-5-hydroxymethylphenyl, 5-amino-3-methoxycarbonylphenyl, 3-amidinophenyl, 3-amino-2-methylphenyl, 5-amino-2-methylthiophenyl, 3-aminophenyl, **[[benzyl,]]** 3-carboxyphenyl, 3-carboxy-5-aminophenyl, 3-carboxy-5-hydroxyphenyl, 3-carboxymethyl-5-aminophenyl, 3-carboxymethyl-5-hydroxyphenyl, 3-carboxymethylphenyl, 3-chlorophenyl, 2-chlorophenyl, 2,6-dichlorophenyl, 3-cyanophenyl, 3-dimethylaminophenyl, 2-fluorophenyl, 3-fluorophenyl, 2,5-difluorophenyl, 2-hydroxyphenyl, 3-hydroxyphenyl, 3-methanesulfonylaminophenyl, 2-methoxyphenyl, 3-methoxyphenyl, 3-methoxyaminophenyl, 3-methoxycarbonylphenyl, 2-methylaminophenyl, 3-methylaminophenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, phenyl, 3-trifluoroacetamidophenyl, 3-trifluoromethylphenyl, and 2-trifluoromethylphenyl;

Y^0 is selected from the group consisting of:



R^{16} and R^{19} are independently selected from the group consisting of hydrido, amidino, amino, aminomethyl, methoxy, methylamino, hydroxy, hydroxymethyl, fluoro, chloro, and cyano;

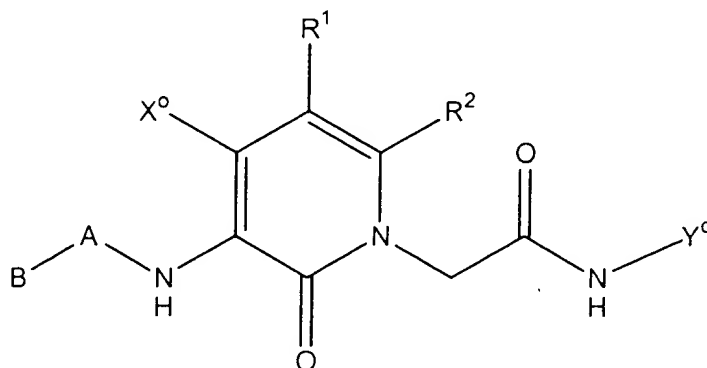
R^{17} and R^{18} are independently selected from the group consisting of hydrido, fluoro, chloro, hydroxy, hydroxymethyl, amino, carboxy, and cyano;

Q^b is selected from the group consisting of hydrido and $C(NR^{25})NR^{23}R^{24}$;

R^{23} , R^{24} , and R^{25} are independently selected from the group consisting of hydrido and methyl; and

Q^s is CH_2 .

Claim 20 (currently amended): The compound as recited in claim 17 having the Formula:



or a pharmaceutically acceptable salt thereof, wherein;

B is selected from the group consisting of hydrido, C2-C8 alkyl, C3-C8 alkenyl, C3-C8 alkynyl, and C2-C8 haloalkyl, wherein each member of group B is optionally substituted at any carbon up to and including 6 atoms from the point of attachment of B to A with one or more of the group consisting of R^{32} , R^{33} , R^{34} , R^{35} , and R^{36} ;

R^{32} , R^{33} , R^{34} , R^{35} , and R^{36} are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkoxy, hydroxy, amino, alkoxyamino, lower alkylamino, alkylthio, amidosulfonyl, monoalkyl amidosulfonyl, dialkyl amidosulfonyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, carboalkoxy, carboxy, carboxamido, cyano, and Q^b ;

A is selected from the group consisting of single covalent bond and $(CH(R^{15}))_{pa}-(W^7)_{rr}$ wherein rr is an integer selected from 0 through 1, pa is an integer selected from 0 through 3, and W^7 is $N(R^7)$;

R^7 is selected from the group consisting of hydrido and alkyl;

R^{15} is selected from the group consisting of hydrido, halo, alkyl, and haloalkyl;

R^1 and X^0 are independently selected from the group consisting of hydrido, hydroxy, hydroxyamino, amidino, amino, cyano, hydroxyalkyl, alkoxy, alkyl, alkylamino, aminoalkyl, alkylthio, alkoxyamino, haloalkyl, haloalkoxy, and halo;

R^2 is Z^0-Q ;

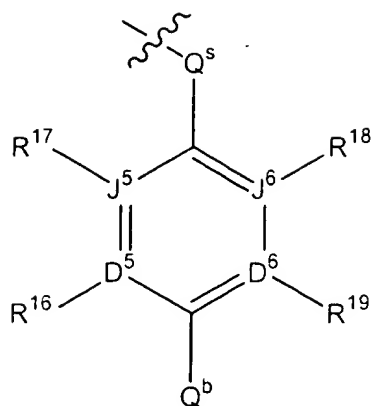
Z^0 is a covalent single bond;

Q is aryl wherein (a) a ring carbon in a first alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^9 , (b) a ring carbon in a second alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^{13} , (c) a ring carbon, in a first beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^9 , is optionally substituted by R^{10} , (d) a ring carbon, in a second beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^{13} , is optionally substituted by R^{12} , and (e) a ring carbon, ~~if present,~~ in the gamma position relative to the ring carbon at the point of attachment and in an alpha position relative to each of the ring atoms optionally substituted by R^{10} and R^{12} , respectively, is optionally substituted by R^{11} ;

R^9 , R^{11} , and R^{13} are independently selected from the group consisting of hydrido, hydroxy, amino, amidino, guanidino, lower alkylamino, alkylthio, alkoxy, alkylsulfinyl, alkylsulfonyl, amidosulfonyl, monoalkylamid sulfonyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, carboxy, carboxamido, and cyano;

R^{10} and R^{12} are independently selected from the group consisting of hydrido, acetamido, haloacetamido, amidino, guanidino, alkyl, alkoxy, alkoxyamino, aminoalkyl, hydroxy, amino, lower alkylamino, alkylsulfonamido, amidosulfonyl, monoalkyl amidosulfonyl, dialkyl amidosulfonyl, hydroxyalkyl, aminoalkyl, halo, haloalkyl, carboalkoxy, carboxy, carboxyamido, carboxyalkyl, and cyano;

Y^0 is an aryl or heteroaryl of 5 or 6 ring members of the formula (IV):



(IV)

wherein D⁵, D⁶, J⁵, and J⁶ are independently selected from the group consisting of C and N provided, however, no more than one of D⁵, D⁶, J⁵, and J⁶ is nitrogen;

R¹⁶, R¹⁷, R¹⁸, and R¹⁹ are independently selected from the group consisting of hydrido, amidino, guanidino, carboxy, haloalkylthio, alkoxy, hydroxy, amino, lower alkylamino, alkylthio, alkylsulfinyl, alkylsulfonyl, alkanoyl, haloalkanoyl, alkyl, halo, haloalkyl, haloalkoxy, hydroxyalkyl, aminoalkyl, and cyano;

Q^b is selected from the group consisting of NR²⁰R²¹, hydrido, N(R²⁶)C(NR²⁵)N(R²³)(R²⁴), and C(NR²⁵)NR²³R²⁴;

R²⁰, R²¹, R²³, R²⁴, R²⁵, and R²⁶ are independently selected from the group consisting of hydrido and alkyl; and

Q^s is CH₂.

Claim 21 (previously presented): The compound as recited in claim 17 or a pharmaceutically acceptable salt thereof, wherein;

B is selected from the group consisting of hydrido, ethyl, 2-propenyl, 2-propynyl, propyl, isopropyl, butyl, 2-butenyl, 2-butylnyl, sec-butyl, tert-butyl, isobutyl, 2-methylpropenyl, 1-pentyl, 2-pentenyl, 3-pentenyl, 2-pentynyl, 3-pentynyl, 2-pentyl, 3-pentyl, 2-methylbutyl, 2-methyl-2-butenyl, 3-methylbutyl, 3-methyl-2-butenyl, 1-hexyl, 2-hexenyl, 3-hexenyl, 4-hexenyl, 2-hexynyl, 3-hexynyl, 4-hexynyl, 2-hexyl, 1-methyl-2-pentenyl, 1-methyl-3-pentenyl, 1-methyl-2-pentynyl, 1-methyl-3-pentynyl, 3-hexyl, 1-ethyl-2-butenyl, 1-heptyl, 2-heptenyl, 3-heptenyl, 4-heptenyl, 5-heptenyl,

2-heptynyl, 3-heptynyl, 4-heptynyl, 5-heptynyl, 2-heptyl, 1-methyl-2-hexenyl, 1-methyl-3-hexenyl, 1-methyl-4-hexenyl, 1-methyl-2-hexynyl, 1-methyl-3-hexynyl, 1-methyl-4-hexynyl, 3-heptyl, 1-ethyl-2-pentenyl, 1-ethyl-3-pentenyl, 1-ethyl-2-pentynyl, 1-ethyl-3-pentynyl, 2,2,2-trifluoroethyl, 2,2-difluoropropyl, 4-trifluoromethyl-5,5,5-trifluoropentyl, 4-trifluoromethylpentyl, 5,5,6,6,6-pentafluorohexyl, and 3,3,3-trifluoropropyl, wherein each member of group B is optionally substituted at any carbon up to and including 5 atoms from the point of attachment of B to A with one or more of the group consisting of R^{32} , R^{33} , R^{34} , R^{35} , and R^{36} ;

R^{32} , R^{33} , R^{34} , R^{35} , and R^{36} are independently selected from the group consisting of hydrido, amidino, guanidino, methyl, ethyl, methoxy, ethoxy, hydroxy, amino, N-methylamino, dimethylamino, methylthio, ethylthio, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, fluoro, chloro, bromo, amidosulfonyl, N-methylamidosulfonyl, hydroxymethyl, carboxy, cyano, and Q^b ;

A is selected from the group consisting of:

- (i) a single covalent bond, NH, $N(CH_3)$, CH_2 , CH_3CH , and CH_2CH_2 ; and
- (ii) $CH_2N(CH_3)$, $CH_2N(CH_2CH_3)$, $CH_2CH_2N(CH_3)$, and $CH_2CH_2N(CH_2CH_3)$

with the proviso that B is hydrido;

X^0 is selected from the group consisting of hydrido, hydroxy, amino, amidino, aminomethyl, cyano, methyl, trifluoromethyl, hydroxymethyl, and fluoro;

R^1 is selected from the group consisting of hydrido, hydroxy, amino, aminomethyl, methylamino, cyano, methyl, trifluoromethyl, methoxy, methylthio, trifluoromethoxy, fluoro, and chloro;

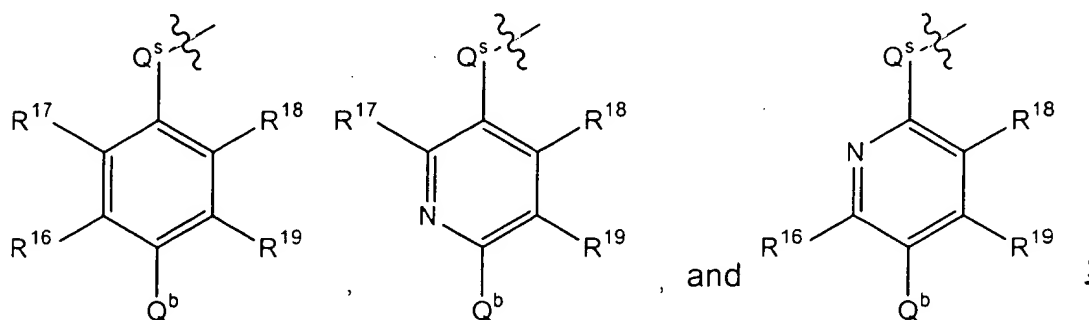
R^2 is phenyl wherein (a) a ring carbon in a first alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^9 , (b) a ring carbon in a second alpha position relative to the ring carbon at the point of attachment is optionally substituted by R^{13} , (c) a ring carbon, in a first beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^9 , is optionally substituted by R^{10} , (d) a ring carbon, in a second beta position relative to the ring carbon at the point of attachment and in an alpha position relative to the ring atom optionally substituted by R^{13} , is optionally substituted by R^{12} , and (e) a ring carbon, in the gamma position relative to the ring carbon at the point of

attachment and in an alpha position relative to each of the ring atoms optionally substituted by R^{10} and R^{12} , respectively, is optionally substituted by R^{11} ;

R^9 , R^{11} , and R^{13} are independently selected from the group consisting of hydrido, methyl, ethyl, methoxy, ethoxy, hydroxy, amino, N-methylamino, N,N-dimethylamino, methylthio, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, fluoro, chloro, bromo, amidosulfonyl, N-methylamidosulfonyl, N,N-dimethylamidosulfonyl, hydroxymethyl, 1-hydroxyethyl, amidocarbonyl, N-methylamidocarbonyl, carboxy, and cyano;

R^{10} and R^{12} are independently selected from the group consisting of hydrido, amidino, amidocarbonyl, N-methylamidocarbonyl, guanidino, methyl, ethyl, methoxy, ethoxy, hydroxy, hydroxymethyl, 1-hydroxyethyl, 2-hydroxyethyl, carboxy, carboxymethyl, amino, acetamido, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, trifluoroacetamido, aminomethyl, N-methylamino, dimethylamino, amidosulfonyl, N-methylamidosulfonyl, N,N-dimethylamidosulfonyl, methoxycarbonyl, fluoro, chloro, bromo, and cyano;

Y^0 is selected from the group consisting of:



R^{16} , R^{17} , R^{18} , and R^{19} are independently selected from the group consisting of hydrido, methyl, ethyl, amidino, guanidino, methoxy, hydroxy, amino, aminomethyl, 1-aminoethyl, 2-aminoethyl, N-methylamino, dimethylamino, methylthio, ethylthio, trifluoromethylthio, methylsulfinyl, methylsulfonyl, trifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, trifluoromethoxy, fluoro, chloro, amidosulfonyl, N-methylamidosulfonyl, hydroxymethyl, carboxy, and cyano;

Q^b is selected from the group consisting of $NR^{20}R^{21}$, $C(NR^{25})NR^{23}R^{24}$, and $N(R^{26})C(NR^{25})N(R^{23})(R^{24})$;

R^{20} , R^{21} , R^{23} , R^{24} , R^{25} , and R^{26} are independently selected from the group consisting of hydrido, methyl, and ethyl; and

Q^5 is CH_2 .

Claim 22 (currently amended): The compound as recited in claim 21 or a pharmaceutically acceptable salt thereof, wherein;

B is selected from the group consisting of hydrido, ethyl, 2-propenyl, 2-propynyl, propyl, isopropyl, butyl, 2-butyl, (R)-2-butyl, (S)-2-butyl, tert-butyl, isobutyl, 1-pentyl, 3-pentyl, 2-methylbutyl, 2,2,2-trifluoroethyl, 4-methyl-2-pentyl, 3-hydroxypropyl, 3-methoxy-2-propyl, 2-methoxyethyl, 2-methyl-2-butyl, 3-methyl-2-butyl, 2-dimethylaminopropyl, 2-cyanoethyl, 6-hydroxyhexyl, 2-hydroxyethyl, 2-amidinoethyl, 2-guanidinoethyl, 3-guanidinopropyl, 4-guanidinobutyl, 3-hydroxypropyl, 4-hydroxybutyl, 6-cyanoethyl, 2-dimethylaminoethyl, 3-methylbutyl, 2-methylbutyl, (S)-2-methylbutyl, 3-aminopropyl, 2-hexyl, and 4-aminobutyl;

A is selected from the group consisting of single covalent bond, CH_2 , CH_3CH , and CH_2CH_2 ;

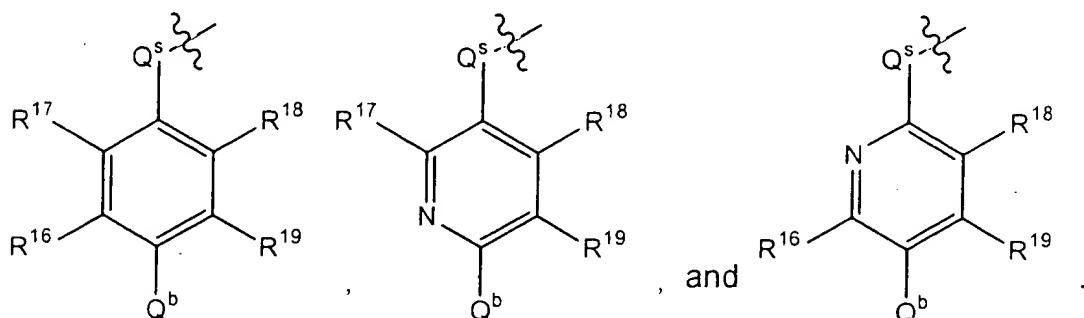
X^0 is selected from the group consisting of hydrido, hydroxy, amino, amidino, aminomethyl, cyano, methyl, trifluoromethyl, hydroxymethyl, and fluoro;

R^1 is selected from the group consisting of hydrido, hydroxy, amino, aminomethyl, cyano, methyl, trifluoromethyl, and fluoro;

R^2 is selected from the group consisting of 5-amino-3-amidocarbonylphenyl, 5-amino-2-fluorophenyl, 3-amino-5-hydroxymethylphenyl, 5-amino-3-methoxycarbonylphenyl, 3-amidinophenyl, 3-amino-2-methylphenyl, 5-amino-2-methylthiophenyl, 3-aminophenyl, **[[benzyl,]]** 3-carboxyphenyl, 3-carboxy-5-aminophenyl, 3-carboxy-5-hydroxyphenyl, 3-carboxymethyl-5-aminophenyl, 3-carboxymethyl-5-hydroxyphenyl, 3-carboxymethylphenyl, 3-chlorophenyl, 2-chlorophenyl, 2,6-dichlorophenyl, 3-cyanophenyl, 3-dimethylaminophenyl, 2-fluorophenyl, 3-fluorophenyl, 2,5-difluorophenyl, 2-hydroxyphenyl, 3-hydroxyphenyl, 3-methanesulfonylaminophenyl, 2-methoxyphenyl, 3-methoxyphenyl, 3-methoxyaminophenyl, 3-methoxycarbonylphenyl, 2-methylaminophenyl,

3-methylaminophenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, phenyl, 3-trifluoroacetamidophenyl, 3-trifluoromethylphenyl, and 2-trifluoromethylphenyl;

Y^0 is selected from the group consisting of:



R^{16} and R^{19} are independently selected from the group consisting of hydrido, amidino, amino, aminomethyl, methoxy, methylamino, hydroxy, hydroxymethyl, fluoro, chloro, and cyano;

R^{17} and R^{18} are independently selected from the group consisting of hydrido, fluoro, chloro, hydroxy, hydroxymethyl, amino, carboxy, and cyano;

Q^b is selected from the group consisting of hydrido and $C(NR^{25})NR^{23}R^{24}$;

R^{23} , R^{24} , and R^{25} are independently selected from the group consisting of hydrido and methyl; and

Q^s is CH_2 .

Claim 23 (previously presented): The compound as recited in claim 22 or a pharmaceutically acceptable salt thereof, wherein;

B is selected from the group consisting of hydrido, ethyl, 2-propenyl, 2-propynyl, propyl, isopropyl, butyl, 2-butyl, (R)-2-butyl, (S)-2-butyl, tert-butyl, isobutyl, 1-pentyl, 3-pentyl, 2-methylbutyl, 2,2,2-trifluoroethyl, 4-methyl-2-pentyl, 3-hydroxypropyl, 3-methoxy-2-propyl, 2-methoxyethyl, 2-methyl-2-butyl, 3-methyl-2-butyl, 2-dimethylaminopropyl, 2-cyanoethyl, 6-hydroxyhexyl, 2-hydroxyethyl, 2-amidinoethyl, 2-guanidinoethyl, 3-guanidinopropyl, 4-guanidinobutyl, 3-hydroxypropyl, 4-hydroxybutyl, 6-cyanoethyl, 2-dimethylaminoethyl, 3-methylbutyl, 2-methylbutyl, (S)-2-methylbutyl, 3-aminopropyl, 2-hexyl, and 4-aminobutyl;

A is selected from the group consisting of single covalent bond, CH_2 , CH_3CH , and CH_2CH_2 ;

X^0 is selected from the group consisting of hydrido, hydroxy, amino, amidino, aminomethyl, cyano, methyl, trifluoromethyl, hydroxymethyl, and fluoro;

R^1 is selected from the group consisting of hydrido, hydroxy, amino, aminomethyl, cyano, methyl, trifluoromethyl, and fluoro;

R^2 is selected from the group consisting of 5-amino-2-fluorophenyl, 3-amino-2-methylphenyl, 5-amino-2-methylthiophenyl, 3-aminophenyl, 3-carboxyphenyl, 3-cyanophenyl, 3-methoxycarbonylphenyl, and phenyl; and

Y^0 is selected from the group consisting of 5-amidino-2-thienylmethyl, 4-amidinobenzyl, 2-fluoro-4-amidinobenzyl, and 3-fluoro-4-amidinobenzyl.

Claim 24 (previously presented): The compound of claim 17, or a pharmaceutically acceptable salt thereof, wherein:

R^2 is 3-aminophenyl, B is 2,2,2-trifluoroethyl, A is single bond, Y^0 is 4-amidinobenzyl, R^1 is hydrido, and X^0 is hydrido;

R^2 is 3-aminophenyl, B is (S)-2-butyl, A is single bond, Y^0 is 4-amidinobenzyl, R^1 is hydrido, and X^0 is hydrido;

R^2 is 5-amino-2-fluorophenyl, B is isopropyl, A is single bond, Y^0 is 4-amidinobenzyl, R^1 is hydrido, and X^0 is hydrido;

R^2 is 2-methyl-3-aminophenyl, B is isopropyl, A is single bond, Y^0 is 4-amidinobenzyl, R^1 is hydrido, and X^0 is hydrido;

R^2 is 3-aminophenyl, B is ethyl, A is single bond, Y^0 is 4-amidinobenzyl, R^1 is hydrido, and X^0 is hydrido;

R^2 is 3-aminophenyl, B is ethyl, A is single bond, Y^0 is 4-amidino-2-fluorobenzyl, R^1 is hydrido, and X^0 is hydrido;

R^2 is 3-aminophenyl, B is 2-propenyl, A is single bond, Y^0 is 4-amidinobenzyl, R^1 is hydrido, and X^0 is hydrido;

R^2 is 3-aminophenyl, B is isopropyl, A is single bond, Y^0 is 4-amidino-2-fluorobenzyl, R^1 is hydrido, and X^0 is hydrido;

R² is 3-aminophenyl, B is isopropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is (R)-2-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propynyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-pentyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is hydrido, A is CH₂, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is ethyl, A is CH₂, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-methylpropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propyl, A is CH₃CH, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is propyl, A is single bond, Y⁰ is 4-amidino-2-fluorobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is tert-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is tert-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-hydroxypropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-methylpropyl, A is single bond, Y⁰ is 4-amidino-2-fluorobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-methoxy-2-propyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-methoxy-2-propyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-methoxy-2-ethyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propyl, A is single bond, Y⁰ is 5-amidino-2-thienylmethyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propyl, A is single bond, Y⁰ is 4-amidino-3-fluorobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-carboxyphenyl, B is 2-propyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propyl, A is single bond, Y⁰ is 4-amidino-3-fluorobenzyl, R¹ is hydrido, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2,2,2-trifluoroethyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is (S)-2-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 5-amino-2-fluorophenyl, B is isopropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 2-methyl-3-aminophenyl, B is isopropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is ethyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is ethyl, A is single bond, Y⁰ is 4-amidino-2-fluorobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propenyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is isopropyl, A is single bond, Y⁰ is 4-amidino-2-fluorobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is isopropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is (R)-2-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propynyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-pentyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is hydrido, A is CH₂, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is ethyl, A is CH₂, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-methypropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propyl, A is CH₃CH, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is propyl, A is single bond, Y⁰ is 4-amidino-2-fluorobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is tert-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is tert-butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-hydroxypropyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-methylpropyl, A is single bond, Y⁰ is 4-amidino-2-fluorobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is butyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-methoxy-2-propyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 3-methoxy-2-propyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-methoxy-2-ethyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propyl, A is single bond, Y⁰ is 5-amidino-2-thienylmethyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-aminophenyl, B is 2-propyl, A is single bond, Y⁰ is 4-amidino-3-fluorobenzyl, R¹ is aminomethyl, and X⁰ is hydrido;

R² is 3-carboxyphenyl, B is 2-propyl, A is single bond, Y⁰ is 4-amidinobenzyl, R¹ is aminomethyl, and X⁰ is hydrido; or

R² is 3-aminophenyl, B is 2-propyl, A is single bond, Y⁰ is 4-amidino-3-fluorobenzyl, R¹ is aminomethyl, and X⁰ is hydrido.

Claims 25-45 (canceled)

Claim 46 (previously presented): A composition for inhibiting thrombotic conditions in blood comprising a compound of claim 24 and a pharmaceutically acceptable carrier.

Claim 47 (previously presented): A composition for inhibiting thrombotic conditions in blood comprising a compound of any one of claims 17 through 23 and a pharmaceutically acceptable carrier.

Claim 48 (previously presented): A method for inhibiting thrombotic conditions in blood comprising adding to blood a therapeutically effective amount of a composition of claim 46 or 47.

Claim 49 (previously presented): A method for inhibiting formation of blood platelet aggregates in blood comprising adding to blood a therapeutically effective amount of a composition of claim 46 or 47.

Claim 50 (previously presented): A method for inhibiting thrombus formation in blood comprising adding to blood a therapeutically effective amount of a composition of claim 46 or 47.

Claim 51 (previously presented): A method for treating or preventing venous thromboembolism and pulmonary embolism in a mammal comprising administering to the mammal a therapeutically effective amount of a composition of claim 46 or 47.

Claim 52 (previously presented): A method for treating or preventing deep vein thrombosis in a mammal comprising administering to the mammal a therapeutically effective amount of a composition of claim 46 or 47.

Claim 53 (previously presented): A method for treating or preventing cardiogenic thromboembolism in a mammal comprising administering to the mammal a therapeutically effective amount of a composition of claim 46 or 47.

Claim 54 (previously presented): A method for treating or preventing thromboembolic stroke in humans and other mammals comprising administering to the mammal a therapeutically effective amount of a composition of claim 46 or 47.

Claim 55 (previously presented): A method for treating or preventing thrombosis associated with cancer and cancer chemotherapy in humans and other mammals comprising administering to the mammal a therapeutically effective amount of a composition of claim 46 or 47.

Claim 56 (previously presented): A method for treating or preventing unstable angina in humans and other mammals comprising administering to the mammal a therapeutically effective amount of a composition of claim 46 or 47.

Claim 57 (previously presented): A method for inhibiting thrombus formation in blood comprising adding to blood a therapeutically effective amount of a compound of any one of claims 17-24 with a therapeutically effective amount of fibrinogen receptor antagonist.